



National Aeronautics and  
Space Administration  
John C. Stennis Space Center  
Stennis Space Center, MS 39529-6000

## DOCUMENT CANCELLATION

**The document identified below is hereby canceled.**

Effective Date

08/20/2020

Document Number

SSP-8715-0001

Revision

**CANCEL**

Document Title

JOHN C. STENNIS SPACE CENTER SAFETY AND HEALTH HANDBOOK

Point of Contact

KAMILI SHAW

**This document is superseded by: SEE BELOW P. 1 OF 7**

Comments:

INTRODUCTION - Intro statements in many other safety documents

2.0 SAFETY PROGRAM ADMINISTRATIVE REQUIREMENTS AND PROCEDURES

2.1 Specific References - All references listed in SPR 8715.1

2.2 Center Wide Safety Meetings

2.2.1 SSC Safety and Health Council (held quarterly) - Council does not exist. Safety group charters are documents in SBCC-1150-0022, John C. Stennis Space Center Striving to Achieve Real Safety (STARS) Charter and SBCC-1150-0016, John C. Stennis Space Center VPP Executive Steering Committee Charter.

2.2.2 NASA Safety Awareness Day Meetings (held annually) - See SCWI SPR 8715.1 Section 3.0 Employee Involvement

2.2.3 Supervisor/Worker Safety Meetings - Content in SCWI-8715-0008 section 6.6.4 and 6.6.5 and SPR 8715.1 sections 3.2 and 3.4

2.3 OSHA Inspections - Content in SPR 8715.1 sections 2.4.5, 2.4.8 and 2.4.9

2.4 Safety & Health Training, Education, Certification, and Technical Skills - See SPR 8715.1 section 6

2.5 Danger Tag for Defective/Unsafe Equipment - See SCWI-8715-0013

2.6 Maximum Work-Time Policy Section - See SPR 8715.1 section 5.6

2.7 Variances from Safety Requirements - See SPR 8715.1 section 5.15

2.8 Imminent Danger Situations - See SPR 8715.1 section 5.13

2.9 Safety of Motor Vehicles and Mechanized Equipment Used on SSC - Introductory Sentence

2.9.1 General Equipment Requirements

a. Traffic Control Plan - See SCWI-8715-0008 8.2.18 and 9.8.1

b. Removal of Debris - See SCWI-8715-0008 9.22.1, 2b, SPR 1600.1 section 4.10g and SCWI-8715-0005 section 4.0 and section 5.2 with form SSC-405

c. Unattended Vehicles - See SPR 8715.1 Rev E section 5.14a

d. Motor Vehicle Requirements - See SPR 1600.1 section 4.0

e. Communication Devices - See SPR 1600.1 section 4.5

2.9.2 Additional SSC Requirement(s)

a. Inflating and Mounting Tires - See 29 CFR 1926.600(a)(2)

b. Working Underneath Heavy Equipment - See 29 CFR 1926.600(a)(3)(i)

c. Heavy Equipment Controls - See 29 CFR 1926.600(a)(3)(i)

d. Parking Brake - See 29 CFR 1926.600(a)(3)(ii)

e. Power Lines - See 29 CFR 1926.600(a)(6)



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Comments:

2.9.3 Specific Motor Vehicles Requirements

- a. See SPR 1600.1 section 4.4b, 29 CFR 1926.601(b)8 and 29 CFR 1926.601(b)9
- b. See SPR 8715.1 Rev E section 5.14

2.9.4 Safety Requirements for All Terrain Vehicles (ATVs)

- a. Driver's License - See SPR 1600.1 section 4.1i
- b. Payload Limitation - See Mississippi Code Title 63-31-1
- c. Number of Wheels - See SPR 8715.1 Rev. E section 5.14
- d. Fire Protection - See SPR 8715.1 Rev E section 5.14
- e. Vehicle Signage - See Mississippi Code Title 63-7-91
- f. Training Requirements - See SCWI-3410-0003 3.1.7 and 3.1.8
- g. Personal Protective Equipment - See Mississippi Code Title 63-31-3 (1)(b)

2.9.5 Safety Requirements for Low Speed Vehicles and Golf Carts

- a. See 49CFR 571.500
- b. See 49CFR 571.500
- c. Golf Carts and Low Speed Vehicle Safety Procedures:
  - (1) See SPR 1600.1 4.4b
  - (2) See SPR 1600.1 4.4j
  - d. See SPR 1600.1 4.1i

2.9.6 Material Handling Powered Equipment Requirements

See 1910.178(a)(4), 1910.66(f)(5)(ii)(I) and 1910.157

2.9.7 Site Clearing Equipment

See 29 CFR 1926.1000 to 1926.1002

2.9.8 Rollover Protective Structures

See 29 CFR 1926.1000 to 1926.1002

2.10 SSC Range Safety Program

See SPR 8715.7

2.11 Safety Critical Procedures

See SPR 8715.1 section 5.5

2.12 System Safety

2.12.1 See SCWI-8710-0001 and SPR 8715.1 4.1.3

2.12.2 See SCWI-8710-0001

2.13 Specific Records and Forms

See SPR 8715.1 Appendix B



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Comments:

2.14 Hazard Reporting

Incorrect Reference, see SPR 8715.1 section 4.5

3.0 INDUSTRIAL SAFETY OPERATING REQUIREMENTS

3.1 Specific References

See SPR 8715.1 Appendix B

3.2 Responsibilities

See SPR 8715.1 sections 2.4.5, 2.4.6 and 2.4.7

3.3 Stennis Space Center Fundamental Safety Rules and Procedures

a. Safe Job Performance – See SPR 8715.1 section 2.4.8n

b. Knives – See SPR 1600.1 section 7.4

c. Weapons - See SPR 1600.1 section 7.4

d. Alterations or Repairs to Safety Equipment – Requirement is too general. Addressed in many safety documents and regulations for instance 29 CFR 1910.22(d)(3) and 29 CFR 1926.1429, general training requirements are in SCWI-3410-0003

e. Substituting and Improvising – See SOI-8080-0027 section 5.2

f. Makeshift Tools and Shortcut Methods - See SOI-8080-0027 section 5.2

g. Employee Illness – See NPR 1800.1 and S3-5400-PL1 for Infection Control

h. Blocking or Altering Safety Devices – Requirement is too general, specifics depend on the device and are in various documents, for instance 29 CFR 1910.334(a)(3)(ii)

i. Lifting Heavy or Bulky Objects – See SCWI-1800-0001 Appendix A, section 2.6

j. Carrying Sharp Objects – See form SSC-819 PPE Hazard Assess

k. Transport Containers and Devices – The requirement is too general. It is not clear if chemical hazards or ergonomics hazards are being addressed. Both are addressed in other documents.

l. Paths of Access – See SPD-8715.9 Attachment A for acceptable pedestrian routes. Note that this document will eventually be canceled and encompassed in a new document, SPR 8715.10.

m. Cautions and Warnings - Content in SPR 8715.1 section 2.4.8o

n. Makeshift Climbing Devices – see SCWI-8715-0003 section 4.1 and 4.2

o. Walking on Roadways – See SPR 1600.1 section 4.2.5n

p. Operation of Machines and Equipment – See SCWI-3410-0003 section 3.1.7 and 3.1.8

q. Equipment Test and Inspection – See SPR 8730.4

r. Use of Air Driven or Electrical Tools – Hazards are addressed in the AHA/JHA process, some specific requirements are in 29 CFR 1926.302(e)(6).



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### Comments:

- s. Repairing Equipment - See SCWI-3410-0003 section 3.1.7 and 3.1.8 for and SCWI-8715-0006, section 5.1
- t. Unusable/Damaged Fire Extinguishers – See SPLN-8838-0001 sections 5.2 and 6.3
- u. Chemical Labeling – See SCWI-1800-0005 section 5.5
- v. Skin Cleansing Agents – See the relevant Safety Data Sheet Process
- w. Written Safety Procedures – This is a basic and general requirement that is inherently following by being ISO 9001 certified and following SPR 8715.1 sections 2.2 and 2.8.1a and SOI-8080-0027 section 5.1
- x. Tripping and Blocking Hazards - See SCWI-8715-0006 sections 6.2a and 6.2l or SCWI-8715-0008 section 9.22.1.6c
- y. Blocking of Fire Lanes – See SPR 1600.1 section 4.3.
- z. Wearing of Jewelry – Addressed in SPR 8715.1 section 2.4.8v, as part of the AHA/JHA process, is the responsibility of supervisors.
- aa. Personal Clothing - Addressed in SPR 8715.1 section 2.4.8v, as part of the AHA/JHA process, and is also the responsibility of supervisors.

### 3.4 Work in Hazardous Classification Areas

See SCWI-8715-0012, John C. Stennis Space Center Work in Hazardous Classification Areas.

### 3.5 Fundamental Safety Rules and Procedures - Lightning Protection

See SCWI-8715-0001, John C Stennis Space Center Lightning Warning System.

### 3.6 Fundamental Safety Rules and Procedures - Personal Protective Equipment

See SCWI-8715-0002, John C. Stennis Space Center Personal Protective Equipment.

### 3.7 Fundamental Safety Rules and Procedures - Fall Protection in Industrial and Construction Activities

See SCWI-8715-0003, John C. Stennis Space Center Fall Protection Program.

### 3.8 Fundamental Safety Rules and Procedures - Buddy System

See SPR 8715.1 section 5.5

### 3.9 Safe Use of Powered/Non-powered Handheld Tools at SSC

#### Introduction

- a. Spark Resistant Tools – See SCWI-8715-0012 Hazardous Classification Areas
- b. Powder-Actuated Tools – See 29 CFR 1910.243(d)(2)(i)a, c, e, and g
- c. Fasteners – covered in 29 CFR 1910.243 (d)(4)(vii), (ix)(a), and (x)

### 3.10 Safety Requirements for Machine/Machinery Guarding

#### Introduction

#### 3.10.1 Machine/Machinery Guarding General Requirements

- a. Machine Guards - See 29 CFR 1910.212 (a)(1), (a)(2) and 29 CFR 1926.300(b)(1)
- b. Shielded Startup – See 29 CFR 1910.217(b)(8)(ii) and NFPA 79 10.1.2.3.1



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Comments:

3.10.2 Machine/Machinery Guarding Specific Equipment Requirements

- a. Aluminum – Knowledge through best practices and training
- b. Dressing Tool - Knowledge through best practices and training
- c. Drill Presses – this was not written as a requirement (should instead of shall) and was not understandable as written.

3.10.3 Machine/Machinery Guarding General Operational Requirements

- a. Qualified Operators – See SCWI-3410-0003 sections 3.1.7 and 3.1.8
- b. Unattended Machinery - Knowledge through best practices and training
- c. Thrown Object Protection – See 29 CFR 1910.212(a)(1)
- d. Machine guarding – See 29 CFR 1910 Subpart O and American National Standards Institute (ANSI) B-11.

3.11 Lockout/Tagout - See SCWI-8715-0013, John C. Stennis Space Center Control of Hazardous Energy Control Program.

3.12 Electrical Safety - See SCWI-8715-0006, John C. Stennis Space Center Electrical Safety Program.

3.13 Fundamental Safety Rules and Procedures – General Safety Requirements in Welding/Cutting Operations

Introduction

- a. Hot Work Permits – See SCWI-8838-0002
- b. Hazard Analysis – See SPR 8715.1 section 4 and SCWI-8710-0001
- c. Hazardous Work Area Classification – See SCWI-8715-0012 and SCWI-8838-0002 section 2.0
- d. Propellant System Configuration – See SCWI-8838-0002 section 5.0m.1.
- e. System Sampling and Leak Prevention - See SCWI-8838-0002 section 5.0m.1, 5.0m.3 and 6.0d.
- f. Pressure Monitoring and Relief – See SCWI-8838-0002 section 5.0m.2
- g. Emergency Procedures - part of the AHA/JHA process, specific procedures are in SCWI-8838-0002 section 5d.3, 5g., 5j., 5k., 5m.5, 6i.1, 6i.2, 6i.6.d.
- h. Safety and Fire Equipment - See SCWI-8838-0002 section 5.0j., section 5d.3, 5m.5, 6i.2, and 6i.6.d. and SPLN-8838-0001 5.0
- i. UV/IR Sensor Shielding - See NFPA 51B A.5.5.1.12 (called out in 1910.6 and 1910.252)
- j. Notifications of Operations – See SCWI-8838-0002 5d.3, 6i.6.f., 7g, There is no requirement to disable fire alarms and is actually the opposite.

3.14 Fundamental Safety Rules and Procedures - General Safety Requirements for Recreational Safety at SSC  
See SPR 8715.10

3.15 Fundamental Safety Rules and Procedures Compressed Gases in Portable Cylinders - See SPR 1740.1



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### Comments:

3.16 Scaffold Safety - See OSHA 1910.27, 1926.450 to 1926.454 plus Appendix A-E to subpart L of 1926, and SCWI-8715-0008 sections 6.8.3, 6.9, 8.2.q, 8.2.6, 8.2.2 7. 9.23.1 3.c., 9.28

3.17 Specific Records and Forms - See SSC Form 68

4.0 INDUSTRIAL HEALTH PROGRAM ADMINISTRATIVE REQUIREMENTS AND PROCEDURES

- All references are listed in SPR 8715.1

5.0 HAZARDS SAFETY AND HEALTH OPERATING PROCEDURES

5.1 Specific References - All references are listed in SPR 8715.1

5.2 General Hydrogen Line Breaking - See SCWI-8715-0019

5.3 Oxygen and Combustible Gas Meter Operations - See SCWI-8715-0019

5.4 Safe Handling of Triethylaluminum/Triethylborane - See SCWI-8715-0019

5.5 Safety Requirements for Gaseous and Liquid Hydrogen - See SCWI-8715-0019

5.6 Safety Requirements for Liquid/Gaseous Oxygen Systems - See SCWI-8715-0019

5.7 Cryogenics Safety - See SCWI-8715-0019

5.8 Safety Requirements Pressure Systems - See SPR 1740.1

5.9 Explosive Safety - See SPR 6330.1.

5.10 Process Safety Management - See SCWI-8715-0010

5.11 Safe Handling of Hydrocarbon Based Propellants - See SCWI-8715-0019

5.12 Critical Lifting Operations - See SWI-8834-0001

5.13 Emergency Fire Evacuation Drills - See SPLN-8838-0001 section 5.11

5.14 Fire Symbols - See SPLN-8838-0001 section 6.5

5.15 Safety Requirements for Using/Storing/Dispensing Gasoline

### Introduction

5.15.1 Specific References - References listed in SPR 8715.1

5.15.2 General Requirements

a. Spill Handling and Reporting - See SCWI-8500-0020-ENV sections 7.1 and 7.2

b. Maintenance and Inspection of Storage Containers - See SPLN-8838-0001 sections 3.0 and 5.3 and SSP-1740-0057, SCWI-8500-0004-ENV section 7.3f, 8.1, 9.2, 9.3, 10.1.1, 10.1.2, A.2, A.3, and form SSC-696J

c. Safety Critical Classification - See SPR 8715.1 section 5.5 and SCWI-8715-0012

d. Use of Gasoline for Cleaning - See the Safety Data Sheet

e. Portable Heating - See SPLN-8838-0001 section 5.7.1





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Comments:

5.16 Natural Gas Systems

Introduction

5.16.1 General Requirements

- a. Safe Distance - See SPLN-8838-0001 section 3.0, SCWI-8500-0004-ENV section 10.1.2
- b. Static Grounding - See SCWI-8500-0004-ENV section 9.3e and 10.1.2h
- c. Relief Valves - Relief valves are in SSTD-8070-0097-TEST Table 2 and SPR 1740.1 and natural gas maintenance requirements are in SSTD-8070-0092-FLUIDS

5.16.2 Operational Requirements - See SPR 8715.1 section 5.5 and 6.0, SCWI-8715-0012, SCWI-3410-0003 Training/Certification Plan 3.1.7 and 3.1.8, and SSTD-8070-0092-FLUIDS

5.17 Specific Records and Forms - References

6.0 CONSTRUCTION SAFETY AND HEALTH OPERATING PROCEDURES - See SCWI-8715-0008

7.0 ACRONYMS, ABBREVIATIONS, AND DEFINITIONS

7.1 Acronyms - Documents that need these acronyms have them

7.2 Definitions - Documents that need these definitions have them

Appendix A- Recreational Facilities - See SPR 8715.10

Appendix B - Explosive Safety Submission/Site Planning - See SPR 6330.1 section 2.3

Appendix C - Stennis Space Center Scaffold Inspection Tool - See NEF Form SSC 936